## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 07917-259WOI	FOR FURTHER see Form PCT/ISA/220  ACTION as well as, where applicable, item 5 below.				
International application No. PCT/US04/33516	International filing date (day/month/year) 12 October 2004 (12.10.2004)	(Earliest) Priority Date (day/month/year) 09 October 2003 (09.10.2003)			
Applicant UNIVERSITY OF MASSACHUSETTS					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of					
It is also accompanied by a copy of each prior art document cited in this report.					
<ol> <li>Basis of the Report         <ul> <li>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul> </li> </ol>					
The international search was carried out on the basis of a translation of the international application furnish to this Authority (Rule 23.1(b)).					
b. With regard to any nucleotid	b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.				
2. Certain claims were found i	insearchable (See Box No. II)				
3. Unity of invention is lacking	(See Box No. III)	* .			
4. With regard to the <b>title</b> ,					
the text is approved as submit	tted by the applicant.				
the text has been established l	by this Authority to read as follows:				
	•				
		·			
	•				
5. With regard to the abstract,	,				
the text is approved as submit	ted by the applicant.				
		as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.			
6. With regard to the drawings, a. the figure of the drawings to be put					
as suggested by the a	as suggested by the applicant.				
as selected by this Au	as selected by this Authority, because the applicant failed to suggest a figure.				
as selected by this Authority, because this figure better characterizes the invention.					
b. none of the figures is to be pul	blished with the abstract.				
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/33516

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07K 16/00; G01N 33/53; C12Q 1/68; A61K 38/00, 31/70; A01N 43/04, 37/18				
US CL	: 530/387.9, 389.2; 435 6, 7.1; 514 2, 8, 44	tional alocaification and IPC	•	
	International Patent Classification (IPC) or to both na DS SEARCHED	idonal classification and IFC		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 530/387.9, 389.2; 435 6, 7.1; 514 2, 8, 44				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X  Y	Urano et al., 28 January 2000 (28.01.2000) Science,	287:664-666, see entire document	1, 5, 7, 12, 15, 16, 19, 20, 24-27, 29, 30, 32- 34	
X	Yoshida et al. 28 December 2001 (28.12.2001) Cell	107:881-891, see entire document	7-11, 15-17, 19, 20, 24- 28, 31-34	
Y			35-46	
Y	US 6,531,292B1 (RINE et al.) 11 March 2003 (11.03.2003), see entire document.		35-46	
Y	Kipriyanov et al. (1999) Molecular Biotechnology, 12:173-201, see entire document 2-4		2-4	
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Further	documents are listed in the continuation of Box C.	See patent family annex.		
• S	pecial categories of cited documents:	"T" later document published after the inter		
"A" document	defining the general state of the art which is not considered to be of relevance	date and not in conflict with the application principle or theory underlying the inver-		
"E" earlier app	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	•	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent f	amily	
Date of the actual completion of the international search		Date of mailing of the international search report		
	05 (26.08.2005)	1 4 OCT 2005		
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Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Michael Szperka		
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Continuation of B. FIELDS SEARCHED Item 3: USPAT US-PGPUB EPO JPO DERWENT MEDLINE BIOSIS CAPLUS EMBASE	SCISEARCH
antibody, IRE1, XBP-1, HRD-1, splice, phosphorylation, ER stress, ERAD, UPR,	
	<u> </u>

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